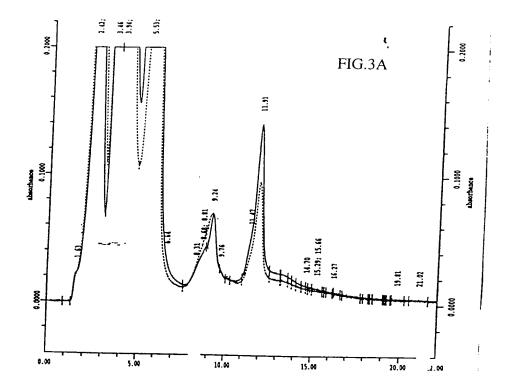
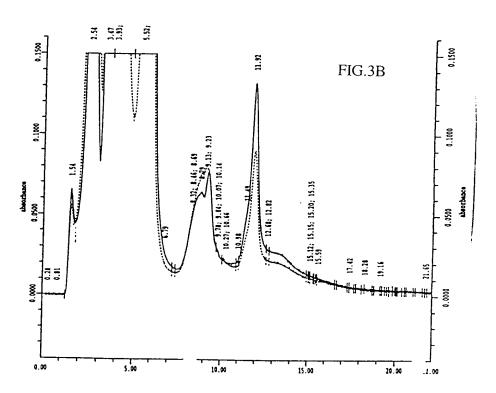
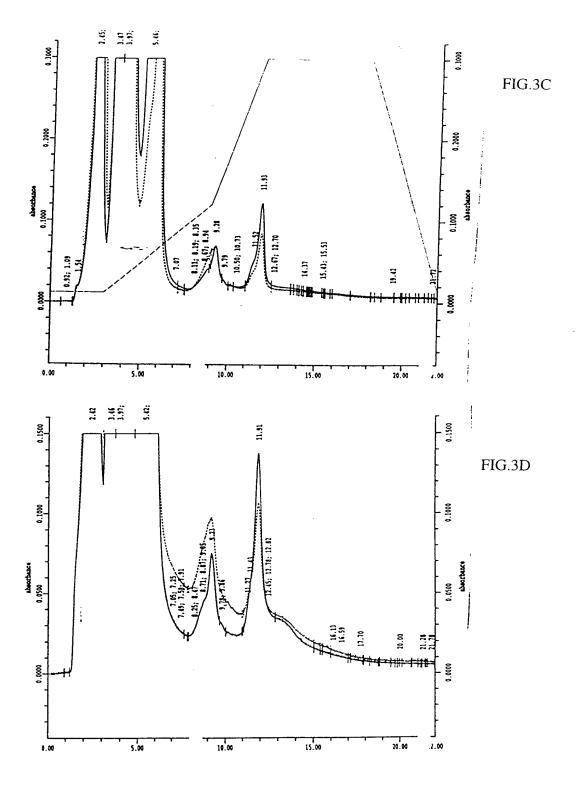


FIG. 2







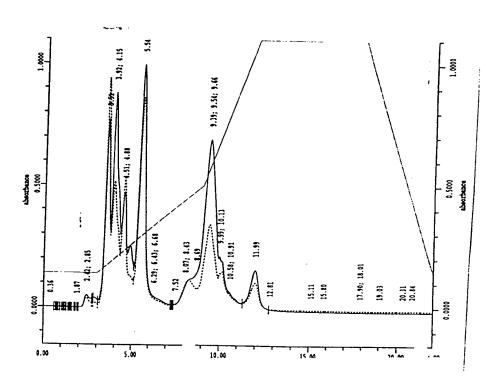
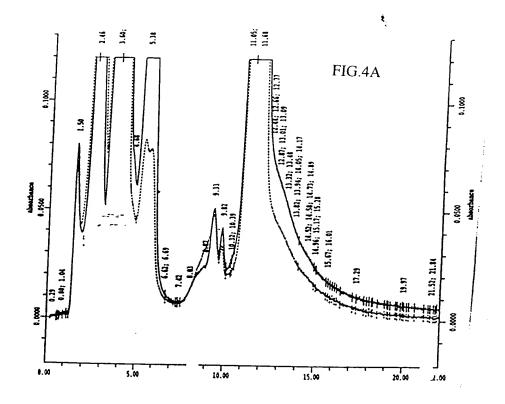
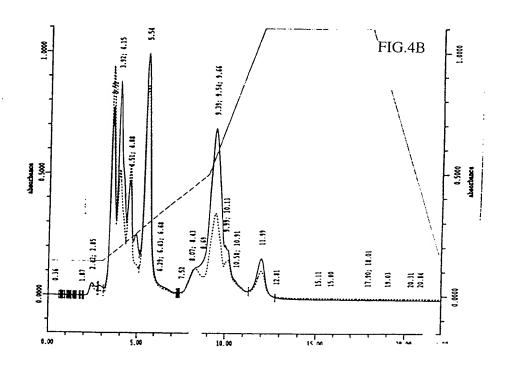


FIG.3E





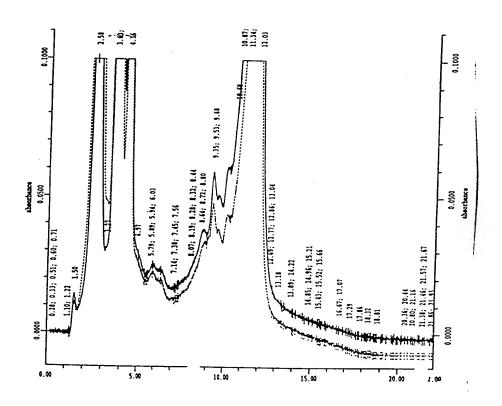


FIG.5

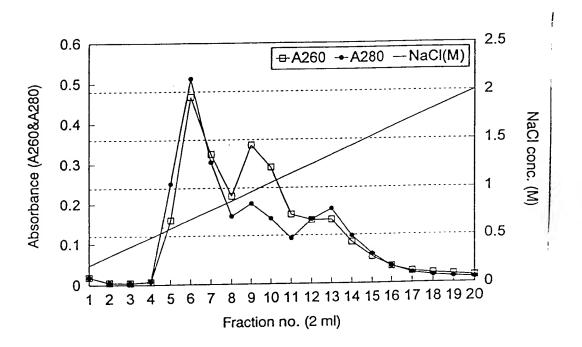


FIG.6

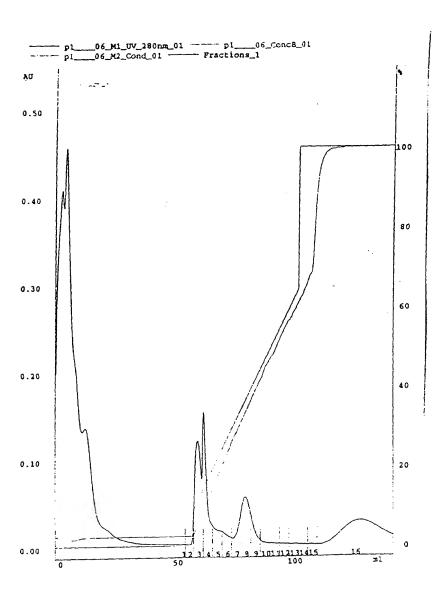
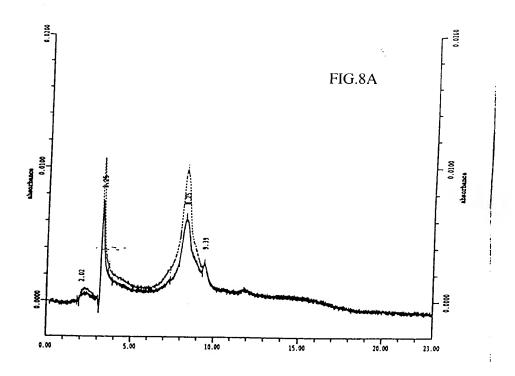
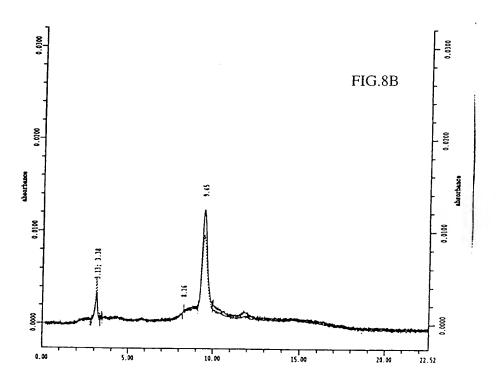
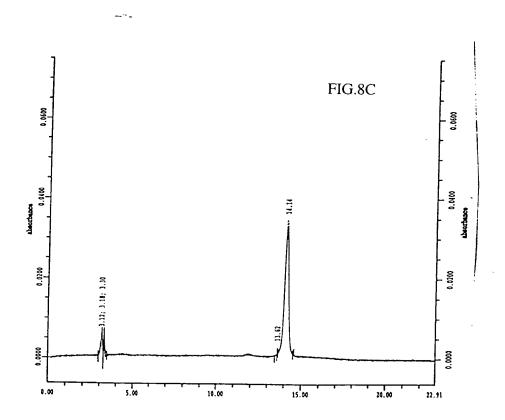
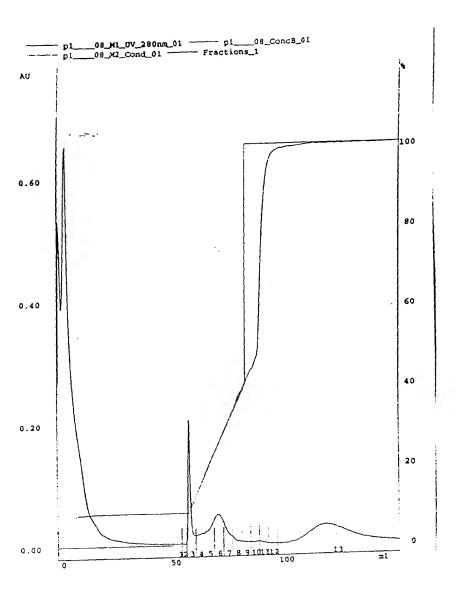


FIG.7



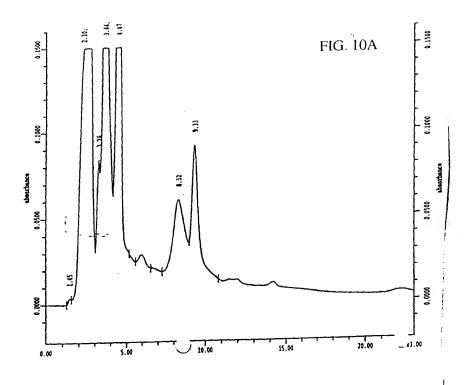


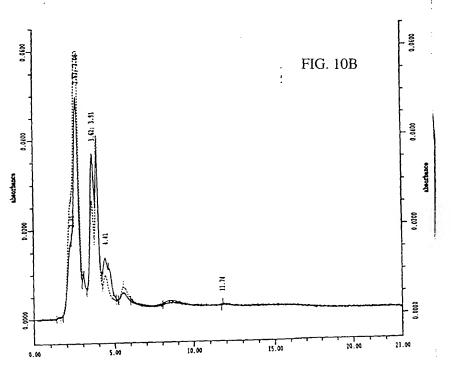


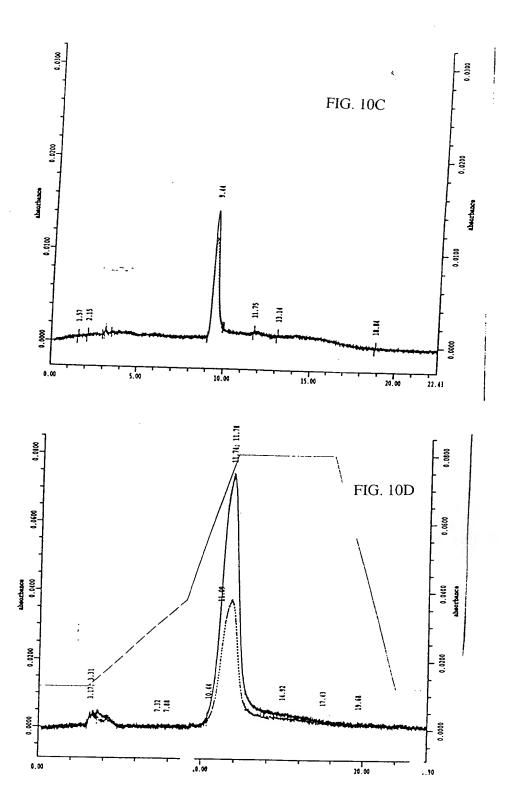


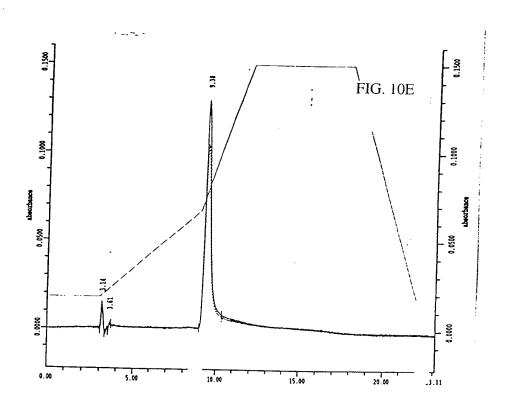
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FIG. 9









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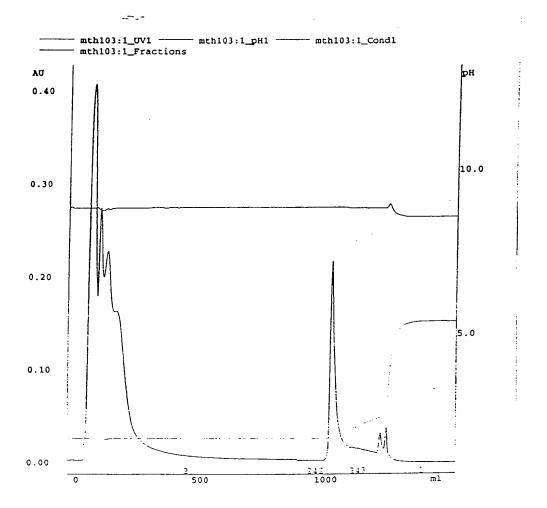
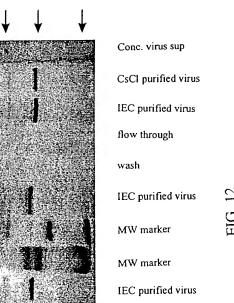


FIG. 11



IEC purified virus

MW marker

Hexon associated protein Hexon associated protein 21.5 14.4 97.4 66.2

Novex MWM

BSA Std

Vector sup

Conc./diafil. sup

IEC purified Adp53

CsCl purified Adp53

BSA Std

Flow thru

Wash

Novex MWM



IG. 13

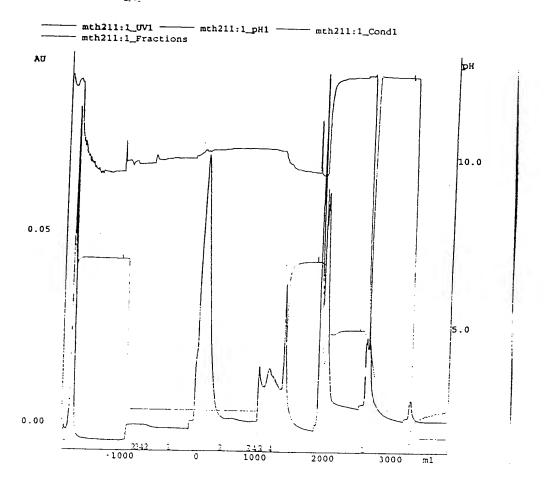
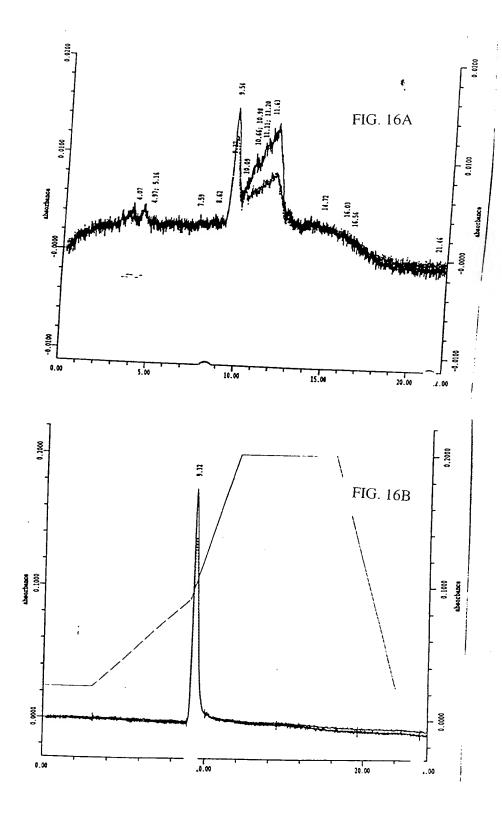


FIG. 14

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FIG. 15



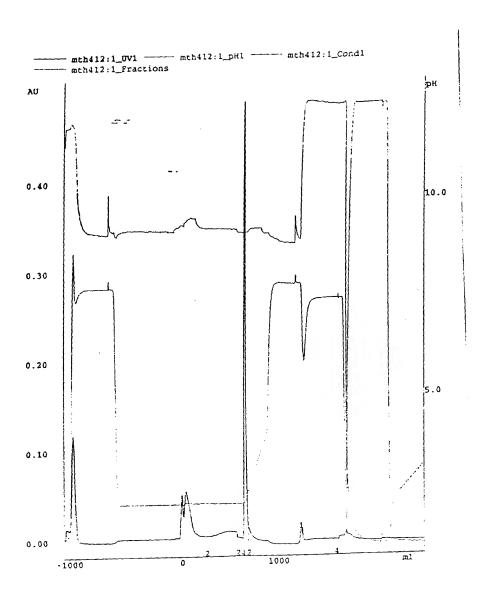


FIG. 17

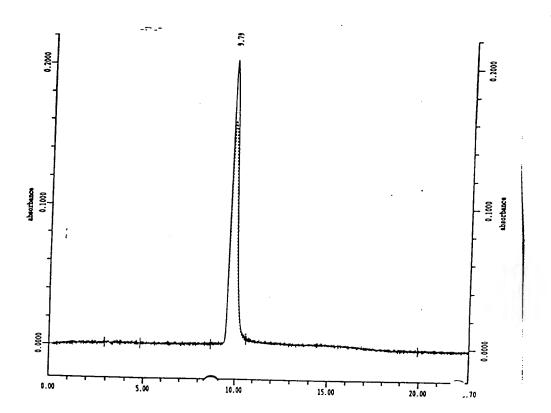
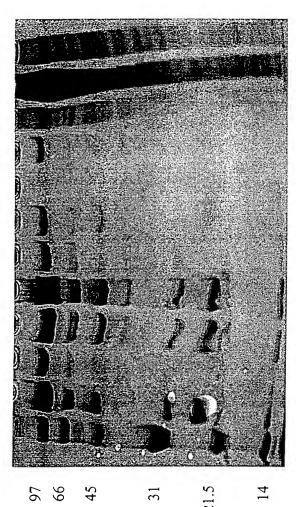


FIG. 18



Tween-20 harvest

Conc. Tween-20 harvest

Flow thru

IEC purifiedAdp53

IEC purifiedAdp53

IEC purifiedAdp53

Conc. IEC purified Adp53

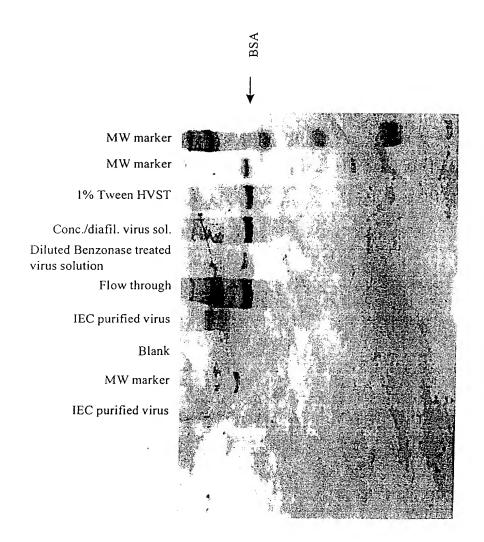
Conc. IEC purified Adp53

Defective virus

CsCl purified Adp53

MWM

3



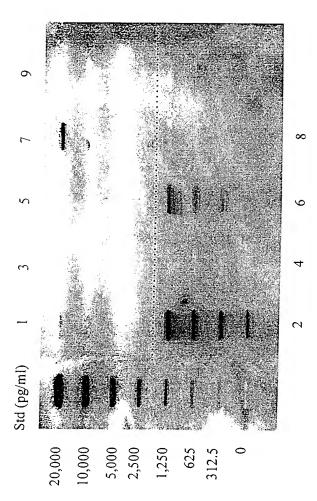
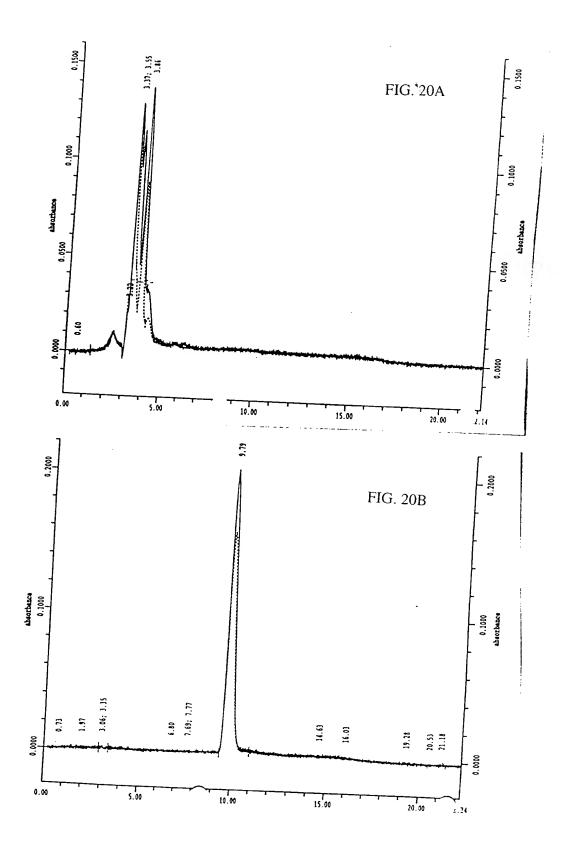
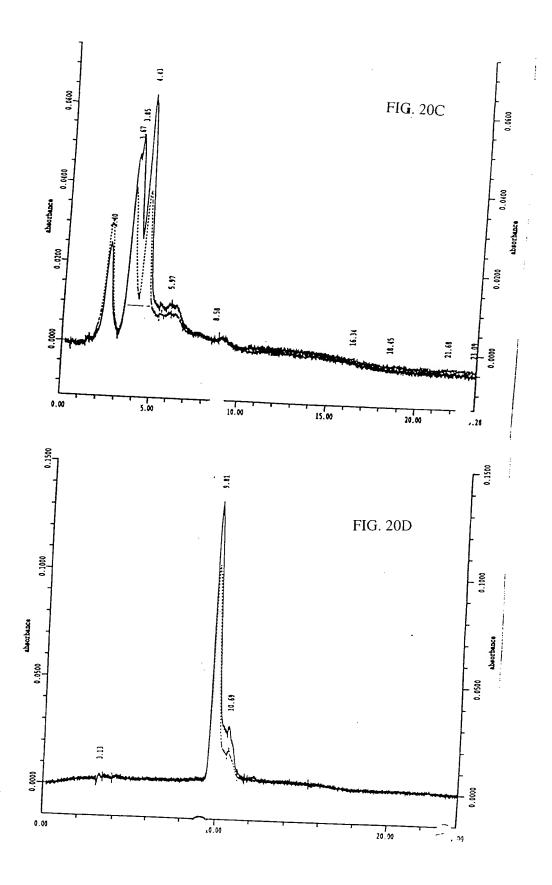
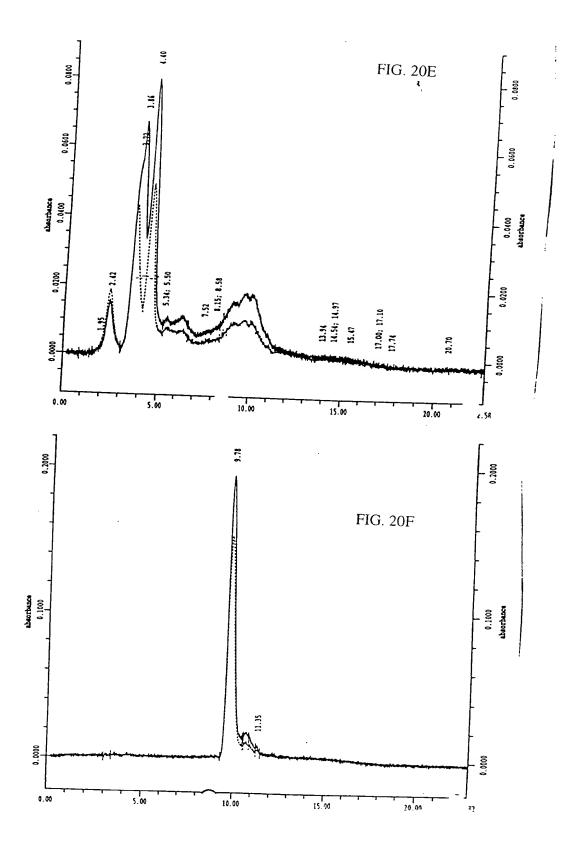


FIG. 19C







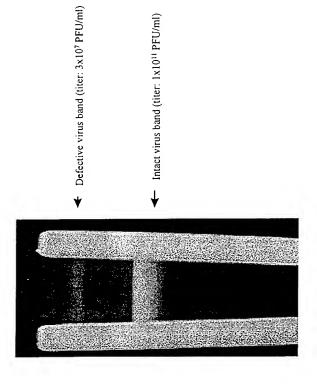
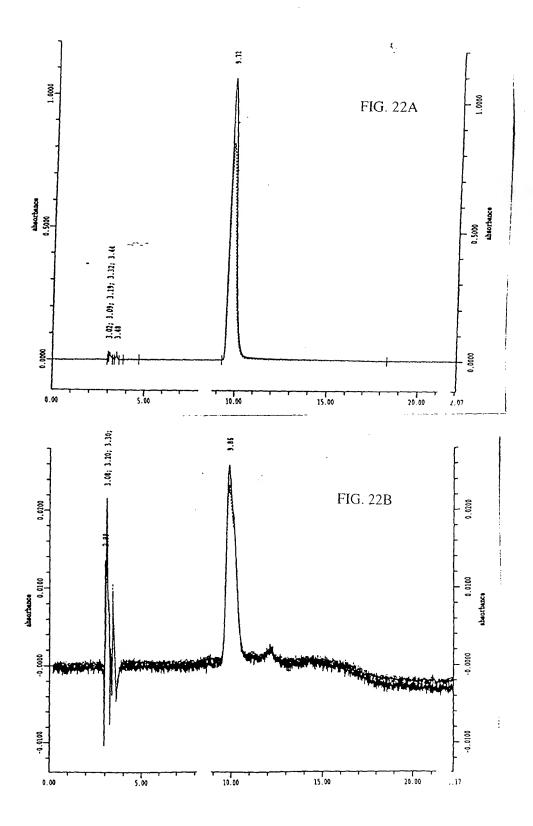


FIG. 21

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	Titer (PFU/ml)	Vol. (ml)	Yield (PFU)	Recovery (%)	
Cube (low perfusion rate, keep glucose > 1g/L)				Step	Acc.
1% Tween-20 in buffer A					
Harvest					
Clarification and Filtration (0.22 um)					
Virus solution	2.6x109	1900	4.9x1012		
Conc./diaf. (10-fold conc., diaf. into 1M NaCl buffer A)					
Conc. sup	2.5x10 <sup>10</sup>	200	5x10 <sup>12</sup>	102%	
Benzonase treatment (O/N, RT, 100u/ml)					
Treated sup					
Dilute with water to conductivity = 22-25 mS/cm					
Diluted virus solution	7x10 <sup>9</sup>	700	4.9x1012	98%	100%
$\downarrow$		700	NOX 10	0070	10070
Purified virus	1.5x10 <sup>10</sup>	240	3.6x10 <sup>12</sup>	73%	73%
conc./diaf (5-fold conc.)					
Final purified product	7x10 <sup>10</sup>	50	3.5x10 <sup>12</sup>	97%	71%

<u>.</u>